

**InStruc® PPSLGF30LM**
*Americhem - Polyphenylene Sulfide*
**General Information**
**Product Description**

InStruc PPSLGF30LM is a 30% glass fiber reinforced linear polyphenylene sulfide. This material also has a laser mark additive to enhance the laser marking process.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Laser Sensitive Additive		
Features	• Filled	• High Stiffness	• Laser Markable
	• Good Dimensional Stability	• High Strength	• Linear Polymer Structure
Uses	• Aerospace Applications	• Housings	• Oil/Gas Applications
	• Connectors	• Industrial Applications	• Outdoor Applications
	• Consumer Applications	• Industrial Parts	• Semiconductor Applications
	• Electrical/Electronic Applications	• Metal Replacement	
	• Engineering Parts	• Military/Defense Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.58		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	1.70E+6	psi	ASTM D638
Tensile Strength	17000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.60E+6	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	1.0	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	500	°F	ASTM D648

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	600 to 630	°F
Mold Temperature	275 to 350	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

